**Summary of genotypic and phenotypic antibiogram for *K. pnemoniae* cpe107 strain. ST11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Antibiotic** | **Genotypic determinants of resistance** | | | **Phenotypic AST** |
| **AMRFinder** | **ResFinder** | **Pathogenwatch** |
| Ampicillin | **blaTEM-1**  SHV-11 | blaSHV-182?  blaSHV-159?  blaSHV-158?  [unknown b-lactam]  blaNDM-1  **blaTEM-1B**  blaCTX-M-15 | **TEM-1D**  SHV-11 | Resistant |
| Amikacin | aac(6')-Ib | aac(6')-Ib | aac(6')-Ib', strA, strB | Resistant |
| Gentamicin | None found | None found | Susceptible |
| Tobramycin | aac(6')-Ib | aac(6')-Ib | Resistant |
| Ciprofloxacin | qnrB9, gyrA\_S83F, gyrA\_D87D  parC\_S80S  **oqxA**  **oqxB** | qnrB9,  **qnrB32** | QnrB76, GyrA-83F, GyrA-87A, ParC-80I  [FLQs] | Resistant |
| Trimethoprim-  Sulfamethoxazole | dfrA14 + sul2 | dfrA14 + sul2 | dfrA14 (homolog) + sul2 | Resistant |
| Cefuroxime | blaCTX-M-15  [cephalosporin] | Not reported | CTX-M-15?? | Resistant |
| Cefotaxime | blaCTX-M-15  [cephalosporin] | blaNDM-1  blaCTX-M-15 | CTX-M-15 | Resistant |
| Meropenem | blaNDM-1 | blaNDM-1 | NDM-1 | Resistant |
| Amoxycillin clavulanic  acid |  | blaNDM-1 | - | Resistant |
| Piperacillin tazobactam |  | blaNDM-1 | - | Resistant |
| Any other antibiotic | tetA: tetracyclines  floR: chloramphenicol  fosA: fosfomycin  pmrB\_R256G: colistin  streptomycin: aph(6)-Id, aph(3’’)-Ib | tet(A): tetracyclines  floR, **oqxA, oqxB**: chloramphenicol  streptomycin: aph(6)-Id, aph(3’’)-Ib | tet(A)  [tetracycline] | Not available |

**Summary of genotypic and phenotypic antibiogram for *K. pnemoniae* cpe108 strain. ST11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Antibiotic** | **Genotypic determinants of resistance** | | | **Phenotypic AST** |
| **AMRFinder** | **ResFinder** | **Pathogenwatch** |
| Ampicillin | blaTEM-1, SHV-11 | blaSHV-182?  blaSHV-159?  blaSHV-158?  [unknown b-lactam]  blaNDM-1  **blaTEM-1B**  blaCTX-M-15 | TEM-1D, SHV-11 | Resistant |
| Amikacin | aac(6')-Ib | aac(6')-Ib | aac(6')-Ib', strA, strB | Resistant |
| Gentamicin | None found | None found | Susceptible |
| Tobramycin | aac(6')-Ib | aac(6')-Ib | Resistant |
| Ciprofloxacin | qnrB9, gyrA\_S83F, gyrA\_D87D  parC\_S80S  oqxA  oqxB | qnrB9,  **qnrB32** | QnrB76, GyrA-83F, GyrA-87A, ParC-80I  [FLQs] | Resistant |
| Trimethoprim-  Sulfamethoxazole | dfrA14 + sul2 | dfrA14 + sul2 | dfrA14 (homolog) + sul2 | Resistant |
| Cefuroxime | blaCTX-M-15  [cephalosporin] | Not reported | CTX-M-15?? | Resistant |
| Cefotaxime | blaCTX-M-15  [cephalosporin] | blaNDM-1  blaCTX-M-15 | CTX-M-15 | Resistant |
| Meropenem | blaNDM-1 | blaNDM-1 | NDM-1 | Resistant |
| Amoxycillin clavulanic  acid |  | blaNDM-1 | - | Resistant |
| Piperacillin tazobactam |  | blaNDM-1 | - | Resistant |
| Any other antibiotic | tetA: tetracyclines  floR: chloramphenicol  fosA: fosfomycin  pmrB\_R256G: colistin  streptomycin: aph(6)-Id, aph(3’’)-Ib | tet(A): tetracyclines  floR, **oqxA, oqxB**: chloramphenicol  streptomycin: aph(6)-Id, aph(3’’)-Ib | tet(A)  [tetracycline]  floR (homolog)  [phenicols] | Not available |

**Summary of genotypic and phenotypic antibiogram for *Enterobacter hormaechei* cpe109 strain.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Antibiotic** | **Genotypic determinants of resistance** | | | **Phenotypic AST** |
| **AMRFinder** | **ResFinder** | **Pathogenwatch** |
| Ampicillin |  | blaACT-7  blaDHA-1  blaOXA-1  blaNDM-1 |  | Not available |
| Amikacin |  | aac(6’)-Ib-cr |  | Not available |
| Gentamicin |  | aac(6’)-IIc |  | Not available |
| Tobramycin |  | aac(6’)-Ib-cr  aac(6’)-IIc |  | Not available |
| Ciprofloxacin |  | qnrB4  aac(6’)-Ib-cr |  | Not available |
| Trimethoprim-  Sulfamethoxazole |  | drfA17 + sul1 |  | Not available |
| Cefuroxime |  | Not reported |  | Not available |
| Cefotaxime |  | blaACT-7  blaDHA-1  blaNDM-1 |  | Not available |
| Meropenem |  | blaNDM-1 |  | Not available |
| Amoxycillin clavulanic  acid |  | blaACT-7  blaDHA-1  blaOXA-1  blaNDM-1 |  | Not available |
| Piperacillin tazobactam |  | blaACT-7  blaDHA-1  blaOXA-1  blaNDM-1 |  | Not available |
| Any other antibiotic |  | fosA: fosfomycin  ere(A), mph(A): erythromycin  catB3, oqxA, oqxB: chloramphenicol |  | Not available |

**Summary of genotypic and phenotypic antibiogram for *Enterobacter hormaechei* cpe110 strain.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Antibiotic** | **Genotypic determinants of resistance** | | | **Phenotypic AST** |
| **AMRFinder** | **ResFinder** | **Pathogenwatch** |
| Ampicillin |  | blaACT-7  blaDHA-1  blaOXA-1  blaNDM-1 |  | Not available |
| Amikacin |  | aac(6’)-Ib-cr |  | Not available |
| Gentamicin |  | aac(6’)-IIc |  | Not available |
| Tobramycin |  | aac(6’)-Ib-cr  aac(6’)-IIc |  | Not available |
| Ciprofloxacin |  | qnrB4  aac(6’)-Ib-cr |  | Not available |
| Trimethoprim-  Sulfamethoxazole |  | drfA17 + sul1 |  | Not available |
| Cefuroxime |  | Not reported |  | Not available |
| Cefotaxime |  | blaACT-7  blaDHA-1  blaNDM-1 |  | Not available |
| Meropenem |  | blaNDM-1 |  | Not available |
| Amoxycillin clavulanic  acid |  | blaACT-7  blaDHA-1  blaOXA-1  blaNDM-1 |  | Not available |
| Piperacillin tazobactam |  | blaACT-7  blaDHA-1  blaOXA-1  blaNDM-1 |  | Not available |
| Any other antibiotic |  | fosA: fosfomycin  ere(A), mph(A): erythromycin  catB3, oqxA, oqxB: chloramphenicol |  | Not available |